



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010579
CERTIFICATION DATE: February 11, 2014
DATE RECERTIFICATION DUE: August 10, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L 0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

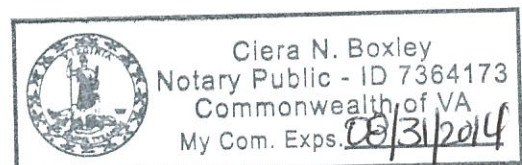
Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 20th day of
February, 2014 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014
TLN



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/11/2014

HMS
mmb

Instrument Serial Number: 010579

As of 11-Feb-14

Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
11-Feb-14	11-Feb-14	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
22-Aug-13	22-Aug-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
07-Mar-13	07-Mar-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
12-Sep-12	12-Sep-12	HMS (18910)	CERTIFIED
27-Mar-12	27-Mar-12	SED (24178)	CERTIFIED. REPLACED DRY GAS STANDARD.
05-Oct-11	05-Oct-11	HMS (18910)	CERTIFIED
19-Apr-11	19-Apr-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
01-Nov-10	01-Nov-10	HMS (18910)	MOVED INSTRUMENT TO THE OTHER SIDE OF THE ROOM, CERTIFIED
26-May-10	26-May-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
11-Dec-09	11-Dec-09	RJP (22428)	CERTIFIED
24-Jun-09	24-Jun-09	HMS (18910)	CERTIFIED.
23-Mar-09	23-Mar-09	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
06-Jan-09	06-Jan-09	HMS (18910)	CERTIFIED.
10-Dec-08	10-Dec-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

hns
mmb

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010579 Worksheet Start Date 2/11/2014
Location Surry County
Address 45 School St., Surry, VA 23883
DFS Technician Heather Stanton License No. 18910

☐ Laboratory

☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 766 Reference Barometer (mm HG) 768
Reference Barometer(RB)Serial # 009113 RB Calibration Due 5/8/2014

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.305
0.300	0.302	0.292	0.311	Sample 2	0.305
Precision		sample min	sample max	Sample 3	0.305
0		0.305	0.305		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.100
0.100	0.101	0.097	0.104	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.100
0		0.100	0.100		

Dry gas standard Lot No. (with tank no.) AG316301-13

☒ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

Notes section with a large, textured rectangular area for handwritten notes.

Instrument Serial Number

010579

Certification Date

2/11/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.252
0.250	0.252	0.244	0.259	Sample 2	0.251
Precision		sample min	sample max	Sample 3	0.251
0.001		0.251	0.252		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.151
0.150	0.151	0.146	0.155	Sample 2	0.151
Precision		sample min	sample max	Sample 3	0.151
0		0.151	0.151		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.081	0.078	0.084	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Heath W. Stark

Date

2/11/14

Issuing Analyst

Michelle B. Bitter

Date

2/18/14

LMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010579 Test Number: 237

Test Date: 02/11/2014 Test Time: 12:49 EST

Technician Initials: HMS

Dry Gas Target: 0.252

Lot Number: 0771325014-02 Exp Date: 05/01/2015

Tank Pressure: 698 psi Barometric Pressure: 766 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:50
BLK	0.000	12:51
CHK	0.252	12:51
BLK	0.000	12:53
CHK	0.251	12:54
BLK	0.000	12:56
CHK	0.251	12:56
BLK	0.000	12:58

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
mmb

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010579 Test Number: 238

Test Date: 02/11/2014 Test Time: 13:02 EST

Technician Initials: *HMS*

Dry Gas Target: 0.151

Lot Number: 2951215012-02 Exp Date: 11/01/2014

Tank Pressure: 169 psi Barometric Pressure: 766 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	13:03
BLK	0.000	13:03
CHK	0.151	13:04
BLK	0.000	13:06
CHK	0.151	13:06
BLK	0.000	13:08
CHK	0.151	13:09
BLK	0.000	13:10

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

LMB
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010579 Test Number: 239
Test Date: 02/11/2014 Test Time: 13:12 EST

Technician Initials: HMS

Dry Gas Target: 0.081

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 276 psi Barometric Pressure: 766 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:12
BLK	0.000	13:13
CHK	0.080	13:14
BLK	0.000	13:15
CHK	0.080	13:16
BLK	0.000	13:17
CHK	0.080	13:18
BLK	0.000	13:19

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010579 Test Number: 240
Test Date: 02/11/2014 Test Time: 13:21 EST

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 0771302011-04 Exp Date: 05/01/2015

Tank Pressure: 286 psi Barometric Pressure: 765 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:21
BLK	0.000	13:22
CHK	0.019	13:23
BLK	0.000	13:24
CHK	0.019	13:25
BLK	0.000	13:26
CHK	0.019	13:27
BLK	0.000	13:28

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

ANS
mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010579 Test Number: 241

Test Date: 02/11/2014 Test Time: 13:31 EST

Dry Gas Target: 0.302

Lot Number: AG322702-08 Exp Date: 08/15/2015

Tank Pressure: 85 psi Barometric Pressure: 765 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:32
CHK	0.305	13:33
BLK	0.000	13:35
CHK	0.305	13:36
BLK	0.000	13:37
CHK	0.305	13:38

Test Status: *Success*

Calibration CRC: 082D9F57

MMB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010579 Test Number: 242

Test Date: 02/11/2014 Test Time: 13:42 EST

Dry Gas Target: 0.101

Lot Number: AG316301-13 Exp Date: 06/12/2015

Tank Pressure: 242 psi Barometric Pressure: 765 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	13:43
CHK	0.100	13:44
BLK	0.000	13:46
CHK	0.100	13:46
BLK	0.000	13:48
CHK	0.100	13:49

Test Status: Success

Calibration CRC: 082D9F57




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Handwritten signature
mmb

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 02/11/2014
TEST EQUIPMENT NUMBER 010579		

RESULTS: TIME SAMPLE TAKEN **13:57 EST**

SAMPLE'S ALCOHOL CONTENT **0.00** GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20 _____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 11 Feb 2014 at 15:58

Handwritten initials: HMB

Test Results

Instrument Serial Number 010579

Test # 000243 Subject Test

Test Location 1 Department of
Test Date 11 Feb 2014

Test Location 2 Forensic Science
Test Time 13:51
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial N
License Number 18910

Card Serial Number 118910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 11 Feb 2014 End Time 13:58

Result Time 13:57

Result Date 11 Feb 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:51

Data Type BLK

Sample Value 0.000

Sample Time 13:52

Data Type CHK

Sample Value 0.100

Sample Time 13:52

Data Type BLK

Sample Value 0.000

Sample Time 13:54

Data Type SUBJ

Sample Value 0.000

Sample Time 13:55

Data Type BLK

Sample Value 0.000

Sample Time 13:56

Data Type SUBJ

Sample Value 0.000

Sample Time 13:57

Data Type BLK

Sample Value 0.000

Sample Time 13:58

Standard Type Dry Gas Std

Standard Value 0.101

Standard Lot Number AG316301-13

Standard Expiration Date 06/12/2015

Tank Pressure 232

Barometric Pressure 765 mmHg

Blow Sample Number 1 Blow Duration 3.34 sec

Blow Volume 1754 cc End-of-Blow Time 13:55

Blow Sample Number 2 Blow Duration 3.38 sec

Blow Volume 1749 cc End-of-Blow Time 13:57

Tamper Evident Stamp 70df9054

Test Status Code 0

Test Status Success